



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ENVIRONMENTAL SERVICES DIVISION
REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

NOV 16 1994

MEMORANDUM

SUBJECT: Review of Sampling Plan for General Electric Co.
West Burlington, Iowa (QQG62)

FROM: Robert B. Dona *RBDona*
Environmental Engineer, EDSB/ENSV

THRU: Jeffrey A. Wandtke *JAW*
Regional QA Manager, EDSB/ENSV

TO: Donald L. Lininger
Work Assignment Manager, IOWA/RCRA/WSTM

I have reviewed the Sampling Plan for closure oversight sampling at the General Electric Company, West Burlington, Iowa, and I recommend its approval with the following comments.

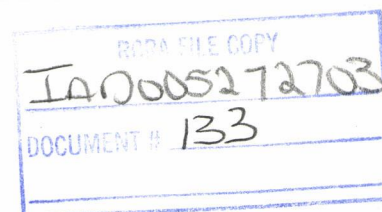
1. The MGP code for 1,1,2-Trichloro-1,2,2-trifluoroethane, WA03, was added to the Analytical Services Request form. The MGP code for cyanide, WJ25, was changed to WT09.
2. The level of interest for benzene, 5 ug/L, is near the detection limit for routine volatile organic analysis by SW-846 Method 8260. If the laboratory is unable to achieve a detection limit of less than 5 ug/L, another analytical method will be used.
3. The activity number ADF13 has been assigned to this sampling activity.

If there are any questions, please call me at 551-5182.

Attachment
QA Document No. 95029



R00324082
RCRA RECORDS CENTER



QA Document Review Checklist

To be completed by QA Office.

Project/Plan Name: General Electric Co., West Burlington, Iowa

QA Activity No.: QQG62 Project Leader: Don Lininger Phone: 551-7724

QA Document No.: 95029 QA Coordinator: Robert Dona Phone: 551-5182

To be completed by QA Reviewer.

Deficiencies were found in the elements checked below:
(See the attached review comments for explanation)

1. Project Objectives

- ☐ Objective or scope of the data collection activity
- ☐ Intended use of the data
- ☐ Action level, detection limit requirements, data quality objectives

2. Sampling (Design and Procedures)

- ☐ Sampling network and rationale
- ☐ Sampling schedule, locations, frequency, project duration
- ☐ Sample matrices, target analytes
- ☐ Sampling/Decontamination procedures
- ☐ Sample containers, preservation, holding times
- ☐ Sample shipment/transportation, coordination with the laboratory
- ☐ Sample custody and documentation of field activities

3. Analytical Methods

- ☒ Quality of written procedure or choice of reference
- ☐ Method detection limit, precision, accuracy, comparability
- ☐ Laboratory documentation

4. Field/Laboratory QC Samples

- ☐ Field QC elements
- ☐ Laboratory QC elements
- ☐ Frequency of QC checks
- ☐ Control limits and corrective actions

5. Data Review, Validation and Reporting

- ☐ Review process
- ☐ Acceptance/Rejection criteria for validation
- ☐ Data deliverables

Review conducted by: Robert Dona

To be completed by QA Office.

QA REVIEW CONCLUSION:

QA Coordinator (sign): Robert B Dona

Review Completion Date: November 16, 1994

(1) ☐ Approval Recommended (2) ☒ Approval Recommended With Comments (3) ☐ Resubmission Recommended




UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

SAMPLING PLAN FOR OVERSIGHT ACTIVITIES AT THE
GENERAL ELECTRIC COMPANY
WEST BURLINGTON, IOWA
EPA ID # IAD005272703

APPROVAL:



EPA WORK ASSIGNMENT MANAGER
Don Lininger



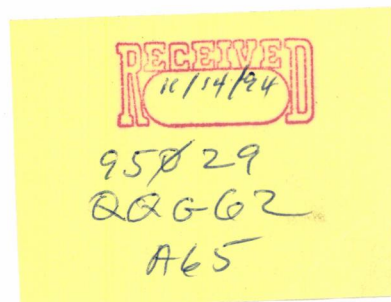
DATE



EPA REGIONAL QUALITY ASSURANCE MANAGER
Jeffery A. Wandtke



DATE



The purpose of this plan is to request analytical services from the EPA Region VII Environmental Services Division (ENSV). Representatives of the General Electric Company (GE) will be collecting rinsewater samples at the facility in accordance with the EPA Region VII tentatively approved Closure Plan during the week of January 9, 1995. The rinsewater samples will then be analyzed by representatives of GE for the constituents identified in the Levels of Interest table.

Split rinsewater sampling activities will be conducted at the subject site in order to verify the analytical results obtained by facility representatives. Split rinsewater samples will be provided to EPA by representatives of GE.

GE manufactures medium and low voltage switchgears and switchboards. Three container storage areas are undergoing closure. A diagram of the facility is enclosed.

Table 1, attached, describes the parameter and analytical requirements for rinsewater sampling activities. Sample containerization, labeling, and preservation procedures will be conducted pursuant to EPA Region VII SOPs #2130.3A and .4A while chain-of-custody and sample transport procedures will be conducted per SOP #2130.2A.

Samples will be delivered to the EPA Region VII Laboratory for in-house analyses or assignment to a contract laboratory. The analytical methods, laboratory quality control, and data validation will follow the approved standard operating procedures of the assigned laboratory.

Investigation derived waste (IDW) will be managed pursuant to the May 1991 EPA document, "Management of Investigation-Derived Wastes During Site Inspections."

A completed Analytical Services Request Form and Sampling Supplies Request Form is attached. It is anticipated that the sampling supplies will be picked up during the week of January 9, 1995.

Table 1
Sample Summary

Sample Locations	Number of Samples	Matrix	Constituents	Analytical Method, SW-846	Container per Sample	Preservatives
Split rinsewater samples	2	Water	Lead, Cadmium, Chromium, Silver	6010	1-Liter plastic cubitainer	HNO ₃ to pH < 2.
			Cyanide	9010	1-Liter plastic cubitainer	NaOH to pH > 12.
			Volatile Organics - See Level of Interest Table	8260	2-40 ml. VOA vials	HCL to pH of 2 and cool to 4° C.
Duplicate split rinsewater sample	1	Water	Same as above	Same as above	Same as above	Same as above
Trip Blank	1	Water	Volatile Organics	8260	2-40 ml. VOA vials	Cool to 4° C.

USEPA Region VII Analytical Services Request (ASR) Form

Activity No.: ADF13 Date: 11/9/94
 Site Name, City, & State: General Electric Co., West Burlington, Iowa
 EPA Project Manager: Don Cinninger
 Section/Branch: Iowa DERA Phone No.: 47724
 Contractor Contact: Jim Caldwell
 Contractor: USGS Phone No.: 319-358-3622
 Projected Sample Delivery Date: January 13, 1995
 Funding Program Element: WSTM (RERAP) IA - closure oversight

Request Summary:

No. of Samples	Matrix	Group/Parameter Name	Group/Parameter MGP Code
3*	Water	LEAD, Cadmium, Chromium, Silver, Cyanide, xylenes, Benzene, Ethylbenzene, Methyl ethyl ketone, Methyl Isobutyl ketone, toluene, 1,1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-Trifluoroethane	WM14, WM06, WM08, WM01, WT09, WV37, WV17, WV29, WV32, WV35, WV26, WV13, WA03,
1	Water	Volatile Trip Blank	WV

Use additional pages as needed for clarity.

Levels Of Interest Are Specified (mark one): In The QA Document-☐
 or On The Back-☒

Special Requirements or Comments:

* Includes one Duplicate sample

NOTE: Submit This Form To RQAM/ENSV 30 Days Before Sample Delivery

Approvals:

Don Cinninger 11/9/94
 EPA Project Manager (Date) EPA Branch or Section Chief (Date)

The Following Is Completed By ENSV Personnel ONLY

QA Document: ☐-Generic QAPP ☒-Site Specific QAPP ☐-Other: _____

Concurrences:

RQAM: RTB Dene 11/6/94 **APPROVED** Comment: _____

Chief, LABO: _____ Comment: _____

Laboratory Assignment:

Scheduled Completion:

☐-Region VII _____
☐-ESAT _____
☐-CLP _____
☐-RECAP _____
☐-Other _____

☐-Routine:
 • Non-CLP = 4 weeks
 • CLP = 8 weeks
☐-Other: _____
 Date: _____

Distribution:

☒ EPA Project Manager
☒ Chief, LABO/ENSV
☐ Chief, GNAN/LABO
☐ Chief, ORGN/LABO
☒ Chief, CLPM/LABO
☒ Data Coordinator
☒ RSCC
☐ Other: _____

(Use Additional Copies Of This Form As Needed)

Page 1 of 1

Site Name: General Electric Co. - West Burlington

(Revised February 1993

USEPA Region VII Sampling Supplies Request (SSR) Form

Activity No.: ADF13 Site Name: General Electric Co.

Contact Name: Don Liniger Telephone No.: X7724

Date Equipment to be Picked Up: January 9, 1995

Item Description **Amount Needed**

Sample Containers:

4-oz. (100 ml) Plastic Bottle	<u>7</u>
1-Liter Plastic Cubitainer	
4-Liter Plastic Cubitainer	
8-Liter Plastic Cubitainer	
20-Liter Plastic Cubitainer	
40-ml Glass Vials (Routine - 2 ea in 1-l cubie with charcoal thimble)	<u>3</u>
40-ml Glass Vials (Low DL - 4 ea in 1-l cubie with charcoal thimble)	
8-oz. (250 ml) Wide Mouth Glass Jar	
32-oz. (1 Liter) Wide Mouth Glass Jar	
8-oz. (250 ml) Amber Glass Bottle	
80-oz. (2.5 Liter) Amber Glass Bottle	
4-Liter Amber Glass Bottle	

Sampling Supplies:

Sampling Spoons	
Aluminum Pans	
1-qt. (1 Liter) Metal Paint Can (with Vermiculite®)	
1-gal. (4 Liter) Metal Paint Can (with Vermiculite®)	
Other:	
Other:	

Preservatives: (return preservative containers to the laboratory)

HCl (1:1)	<u>X</u>
HNO ₃ (1:1)	<u>X</u>
H ₂ SO ₄ (Concentrated)	
NaOH (Pellets)	<u>X</u>
Other:	

Shipping Supplies:

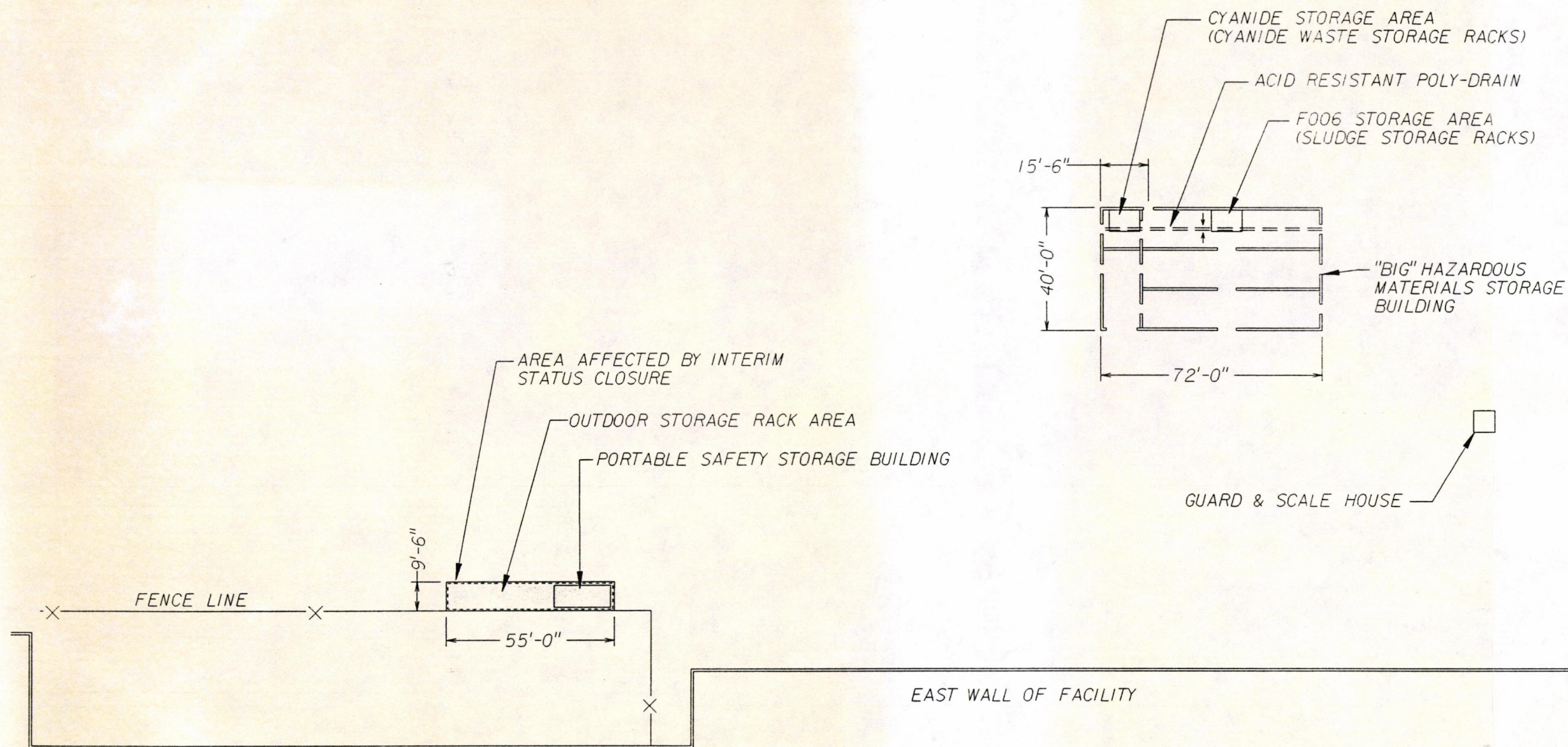
Large Plastic Bags (ice chest liner)	<u>1</u>
Ice Chests	<u>1</u>
Fiber Tape (by roll)	
Custody-Seal Tape (by piece, not roll)	
Chain-Of-Custody Forms	<u>1</u>
Storage Bags for Chain-Of-Custody Forms	<u>1</u>
Packing Foam	

Quality Control Samples:

Water Trip Blanks (VOA only)	<u>1 X</u>
Soil Trip Blanks (VOA only)	

Performance Evaluation (PE) Samples:

No. of PE Samples	Matrix	Target Analytes	Desired Concentration Range



GENERAL ELECTRIC COMPANY
GE SWITCHGEAR OPERATION
WEST BURLINGTON, IOWA

SITE PLAN

FIGURE 1-2



MONTGOMERY WATSON